INFORMATION DISCLOSURE CITATION

Attorney Docket:	Serial No.:	
2458-4042US5	10/019,342	
Applicant:		
DENTON, et al.		
Filing Date:	Group Art Unit:	
December 21, 2001	TBA	

5,972,604	10/26/1999	Santamaria et al	
5,858,659	01/12/1999	Sapolsky et al.	
 5,187,775	2/16/1993	Schroeder et al.	
 5,867,402	2/2/1999	Schneider et al.	
 6,023,659	2/8/2000	Seilhamer et al.	
 5,096,557	03/17/1992	Simons	
 5,192,659	03/09/1993	Simons	
 5,612,179	03/18/1997	Simons	
 5,789,568	08/04/1998	Simons	
 5,851,762	12/22/1998	Simons	
 5,724,253	3/3/1998	Skovira	
5,834,189	11/10/1998	Stevens et al.	
 5,618,672	4/8/1997	Stodola et al.	
5,885,776	03/23/1999	Stone et al.	
 5,502,773	3/26/1996	Tibbetts et al.	

TÁ.		FOR	EIGN PATENT DOCUMENTS			
Examiner		Publication				
Initial	Patent Number	Date	Country	Class	Sub-Class	Translation
	WO 87/02802 ×	5/7/1987	PCT			☐ Yes ☐ No
	WO 91/05302	4/18/1991	PCT			☐ Yes ☐ No
	WO 92/01066	1/23/1992	PCT			☐ Yes ☐ No
	WO 95/17524	6/29/1995	PCT			☐ Yes ☐ No
	WO 95/10805 ×	4/20/1995	PCT			☐ Yes ☐ No
	WO 97/40462 .~	10/30/1997	PCT			☐ Yes ☐ No
	WO 99/05323 .x	02/04/1999	PCT			☐ Yes ☐ No
	WO 99/05324 🗶	02/04/1999	PCT		_	☐ Yes ☐ No
	WO 99/11822	3/11/1999	PCT			☐ Yes ☐ No
	WO 99/54500 🔀	10/28/1999	PCT			☐ Yes ☐ No
-	WO 99/57308					☐ Yes ☐ No
	WO 99/64626 💉	12/16/1999	PCT			☐ Yes ☐ No
	WO 99/64627	12/16/1999	PCT			☐ Yes ☐ No
	WO 00/33161 X	06/08/2000	PCT			☐ Yes ☐ No
	WO 00/50639A2		PCT			☐ Yes ☐ No
	(cd format)				<u></u>	
	WO 00/50639A3		PCT			☐ Yes ☐ No
	(ca format)		DOT		 ` _	☐ Yes ☐ No
		11/29/2001	PCT			Yes No
	WO 02/064617 ×		PCT		ļ:	Yes No
	EP 0245466B1 🖈		EP			Yes No
		10/11/1989	EP		·	
	EP 0336560A3	10/11/1989	EP		ļ	Yes No
	EP 0336560B1		EP	<u> </u>		Yes No
	EP 0404682A2 ×	12/27/1990	EP		ļ	Yes No
	حر EP 0404682B1	 12/27/1990	EP	<u> </u>	<u> </u>	Yes No
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EP 0408188A2 × 1/16/1991	EP	☐ Yes ☐ No
EP 0408188A3 × 1/16/1991	EP	☐ Yes ☐ No
EP 0408188B1 × 1/16/1991	EP	Yes No
EP 0449494A2 × 10/2/1991	EP .	Yes No
EP 0449494A3 x 10/2/1991	EP	☐ Yes ☐ No
EP 0449494B1 8/25/1999	EP	Yes No
EP 0474944A2 X 3/18/1992	EP	Yes No
EP 0474944B1 × 7/16/1997	EP	Yes No
EP 0481286A2 * 4/22/1992	EP	Yes No
EP 0481286B1. × 4/9/1997	EP	☐ Yes ☐ No
EP 0494907B1-X 5/15/1996	EP	Yes No
EP 0612846A1 × 8/31/1994	EP	☐ Yes ☐ No
EP 0612846B1 × 8/16/2000	EP	Yes No
EP 0673523B1 × 2/10/1999	EP	Yes No
EP 0812922A2 12/17/1997	EP	Yes No

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)
	Beaudet, Arthur L., "1998 ASHG Presidential Address - Making Genomic Medicine a Reality", American Journal of
7.	<u>Human Genetics</u> , Vol. 64, pp. 1-13, 1999.
	Carter et al., "Genetic Control of Drug-Induced Recovery from Murine Visceral Leishmaniasis", J. Pharm.
۶.	Pharmacol. 1994, 45:795-798
	Cashman, Siobhan M. et al., "The Irish Cystic Fibrosis Database", Journal of Medical Genetics, Vol. 32, pp. 972-
>	975, July 1995.
	Chakraborty, R. "A Class of Population Genetic Questions Formulated as the Generalized Occupancy Problem",
بع	Genetics, July 1993, 134:953-958
	Chiano et al. "Fine Genetic Mapping Using Haplotype Analysis and the Missing Data Problem", Ann. Hum. Genet.,
.*	1998, 62:55-60.
	Clark, Andrew G. et al., "Haplotype Structure and Population Genetic Inferences From Nucleotide-Sequence
.*	
	Clark, Andrew G., "Inference of Haplotypes from PCR-amplified Samples of Diploid Populations", Mol. Biol.
×	<u>Evol.</u> , 7(2):111-122, 1990
	Cooper, Gillian et al., "Network Analysis of Human Y Microsatellite Haplotypes", Human Molecular Genetics, Vol. 5,
X	No. 11, pp. 1759-1766, 1996.
	Dempster et al., "Maximum Likelihood from Incomplete Data via the EM Algorithm", J. Statistical Society, Vol. 39,
X	No. 1, pp.1-38, 1977
	Drefus et al. "Etude des Reactions Croisees des Antigenes HLA A et B Chez 63 Patients Atteints de Polyarthrite
	Rhumatoide", Revue du Rhumatisme, 1984, 51(4), 197-202
	Drysdale, "Complex promoter and coding region beta 2-adrenergic receptor haplotypes alter receptor expression
.×	and predict in vivo responsiveness", 2000, Proc. Natl. Acad. Sci. 97(19):10483-8
•	Excoffier et al., "Incorporating Genotypes of Relatives into a Test of Linkage Disequilibrium", Am. J. Hum. Genet.,
×	62:171-180, 1998
	Excoffier et al. "Maximum-Likelihood Estimation of Molecular Haplotype Frequencies in a Diploid Populations",
	-Mol. Biol. Evol., 1995, 12(5):921-927.
	Fisher, Lloyd D. et al., "Biostatistics: A Methodology for the Health Sciences", pp. 345-495, 692-762, John Wiley &
	Sons, Inc.

Examiner		Date Considered	
EXAMINER:	Initial if reference considered, whether or not citation is in conform		
	Draw line through citation if not in conformance and not considered	1 .	
	Include copy of this form with next communication to Applicant.		

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DENTON, et al.		
Filing Date:	Group Art Unit:	
December 21, 2001	TBA	

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)
٠	Gene et al., "Haplotype Frequencies of Eight Y-chromosome STR loci in Barcelona (North-East Spain)", International Journal of Legal Medicine, Vol. 112, pp. 403-405, 1999.
	Hartl, Daniel L. et al., "Genetic and Phenotypic Variation", Principles of Population Genetics, pp. 37-109, Singuer
×	Associates, Inc., 3 ed.
4	Hawley et al., "HAPLO: A Program Using the EM Algorithm to Estimate the Frequencies of Multi-site Haplotypes", J. of Heredity, 86(5), pp. 409-411, 1995
	Hill et al., "Human Genetic Variation and Its Impact on Public Health and Medicine", pp.62-74
•	Hill, "Tests for Association of Gene Frequencies at Several LOCI in Random Mating Diploid Populations",
	Biometrics, 31, 881-888, 1975 Hoang, Liem et al., "PAH Mutation Analysis Consortium Database: A Database for Disease-Producing and Other
	Allelic Variation at the Human PAH Locus", Nucleic Acids Research, Vol. 24, No. 1, pp. 127-131, 1996.
	Jackson et al., "Pharmacokinetic-Pharmacogenetic Modelling in the Detection of Polymorphisms in Xenobiotic
_	Metabolism", 1990, Ann. Occup. Hyg. 34(6):653-662
.<	Judosn et al., "The Predictive Power of Haplotypes in Clinical Response", 2000, pp.1-12
	Judson, Richard, "Genetic Algorithms and Their Use in Chemistry", Reviews in Computational Chemistry, Vol. 10,
	pp. 1-66, 1997 Kalow et al., "The Science of Pharmacological Variability: An essay", Clin. Pharma. & Therapeutics, Vol. 66, No. 5,
ر	pp.445-447, 1999
•	Kardia et al., "An Evolutionary Perspective on the Genetic Architecture of Susceptibility to Cardiovascular Disease",
بر.	pp. 231-245
	Kleyn, Patrick W. et al., "Genetic Variation as a Guide to Drug Development", Science, Vol. 281, pp. 1820-1821,
×	September 18, 1998.
/	Kwok et al., "Single Nucleotide Polymorphism Libraries: Why and How are We Building Them?", Mol. Med. Today, 1999, Vol. 5, pp. 538-543
	Layton et al., "The Therapeutic Response to D-Penicillamine in Rheumatoid Arthritis: Influence of Glutathione S-
	transferase Polymorphisms", Rheumatology, 1999, 38:43-47
×	Long et al., "An E-M Algorithm and Testing Strategy for Multiple-Locus Haplotypes", Am. J. Hum. Genet., 56:799-810, 1995
,	MacLean et al., "Estimation of Myriad Haplotype Frequencies", Genetic Epidemiology, 2:263-272, 1985
٨	Magon, "Pharmacogenetic interactions in G6PD deficiency and development of an in vitro test to predict a drug's hemolytic potential", 1981, Prog. Clin. Biol. Res., 55:709-24
	Matise, T.C., "Genome Scanning for Complex Disease Genes Using the Transmission / Disequilibrium Test and
	Haplotype-based Haplotype Relative Risk", Genetic Epidemiology, Vol. 12, pp. 641-645, 1995.
الح	Meyer, Urs A., "Medically Relevant Genetic Variation of Drug Effects", pp. 41-49
, ا	Michalatos-Beloin et al. "Molecular Haplotyping of Genetic Markers 10 kb Apart by Allele-Specific Long Range PCR", Nucleic Acids Research, 1996, 24(23):4841-4843.
	Mori, Motomi et al., "Computer Program to Predict Likelihood of Finding an HLA-Matched Donor: Methodology,
×	Validation, and Application", Biology of Blood and Marrow Transplantation, Vol 2, pp. 134-144, October 1996.
	Mori, Motomi et al., "HLA Gene and Haplotype Frequencies in the North American Population", Transplantation,. Vol. 64, No. 7, pp. 1017-1027, October 15, 1997.
	Neuman et al. "A Bit about Haplotypes: Using Binary Digits to Code Tightly Linked Loci", Hum. Hered., 1994
h'	44:241-247
-7	Niu et al, "Bayesian Haplotype Inference for Multiple Linked Single-Nucleotide Polymorphisms", Am. J. Hum.
٨.	<u>Genet.</u> , 2002, 70:157-169

Examiner		Date Considered	
EXAMINER:	Y '' 1'C C	and with MPEP 8600	
EXAMINER:			
!	Draw line through citation if not in conformance and not considered.		
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Filing Date:	Group Art Unit:	
December 21, 2001	J TBA ¯	

	OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Papers, etc.)
×	Olsen et al., "Design and Sample-Size Considerations in the Detection of Linkage Disequilibrium with a Disease Locus", Am. J. Hum. Genet. 1994, 55:574-580
	Perlin, Mark et al., "Toward Fully Automated Genotyping: Allele Assignment, Pedigree Construction, Phase
	Determination, and Recombination Detection in Duchenne Muscular Dystrophy", American Journal of Human
×	<u>Genetics</u> , Vol. 55, pp. 777-787, June 1994.
	Press, William H. et al, "Numerical Recipes in C: The Art of Scientific Computing", pp. 394-455, Cambridge
	University Press, 2 ed.
A	Rich, Elaine et al., "Artificial Intelligence", pp. 514-519, McGraw-Hill, Inc., 2 ed.
X	Ruano et al. "Haplotype of Multiple Polymorphisms Resolved by Enzymatic Amplification of Single DNA Molecules", August 1990, Proc. Natl. Acad. Sci., Vol. 87, pp. 6296-6300
×	R & D Directions Staff, "Beyond Genomics", R & D Directions, April 1999 pp. 40-44
	Slatkin et al., "Testing for Linkage Disequilibrium in Genotypic Data Using the Expectation-Maximization
	Algorithm", Heredity, 76:377-383, 1996
٠,	Staessen et al., "M235T Angiotensinogen Gene Polymorphism And Cardiovascular Renal Risk", J. Hypertension, January 1999, 17(1):9-17.
.*	TO C. 1
9	Stephens, J. Claiborne, "Single-nucleotide Polymorphisms, Haplotypes, and Their Relevance to Pharmacogenetics",
K	Molecular Diagnosis, Vol. 4, No. 4, pp. 309-317, December 1999.
	Stephens et al., "A New Statistical Method for Haplotype Reconstruction from Population Data", Am. J. Hum.
t	Genet., 2001, 68:978-989
<	Thayer, Ann M., "Bioinformatics for the Masses", <u>C&EN</u> , 19-32, 2000
J	Tishkoff S. A. et al., "The Accuracy of Statistical Methods for Estimation of Haplotype Frequencies: An Example from the CD4 Locus", American Journal of Human Genetics, Vol 67, pp. 518-522, August 2000.
	Appleby, "Pharmaceutical Labs Exploring Drugs Tailored to Ethnicity, DNA", January 24, 1999, Las Vegas Review
K	- Journal, Section A, p. 26A.
×	Birt, "Drugs Industry Predicted to Be 'Microsoft' For the New Millenium", June 1, 1998, Birmingham Post, pg. 29
×	"Bursting with Innovation", December 1997, Med Ad News,
	Craig, "Answers for the Toughest Challenges", April 19, 1999; Forbes, Supplement; Special Advertising Section;
	Biotechnology, page 2.
	Debare, "California Spotlight: Incyte plans to conquer DNA mapping within year; Genetics: Part of the plan is to
x	purchase British firm Hexagen for \$41 million", August 23, 1998, The Orange County Register, pg. K01.
	Furuta, "Race to Unlock Genetic Secrets Heats Up in Japan's Laboratories: Analysis of Genes Could Help Create
. .×	Tailor-Made Medicines", November 16, 1998, The Nikkei Weekly, pg. 1
	"Genaissance Raises \$10 Million in Private Placement; Accelerates Development of Personalized Medicines Through Pharmacogenomics", August 27, 1998; PR Newswire, Financial News Section
٠,٨	MacGregor, "Delay is Half The Cure: Nova's Merger With U.S. Firm Steps Up Research Aimed at Postponing
S .	Alzheimer's Until It No Longer Matters", March 10, 1999, The Gazette (Montreal), Section D1.
	"Mix/Match Analysis of Gene Diversity in Ethnic Cross-Section Aims at Personalized Medicine", 2001, Bioworld
. X	lean a second
	Regalado, "Inventing the Pharmacogenomics Business, Part 1", September 1997, In Vivo the Business & Medicine
×	Report, p. 52.
	Sadee, Wolfgang, "Using Genetic Information to Optimize Drug Therapy", Medscape Pharmacotherapy, 2000
	"Terrapin and Genaissance Establish Research and Development Collaboration Targeting Drug Candidates Based on
<i>x</i>	Estrogen Receptor Modulators Identified in Genomics Research", February 12, 1998, Business Wire

Examiner		Date Considered
EXAMINER:	Initial if reference considered, whether or not citation is in conformance with MPEP §609.	
	Draw line through citation if not in conformance and not considered.	
	Include copy of this form with next communication to Applicant.	

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December 21, 2001	1 TBA	

	Control of the Child Process of the
1 5	
	The Genesis Group, "Will Pharmocogenomics Create a \$2 Billion Market?", July 1998, Genesis Report, 8(1); pg 26;
X	1061-2289
×	"Valigen Acquires Berlin-Based Infogen and Phenotype Database", 2000, Worldwide Biotech
	"Variagenics, Inc. Acquires Exclusive Rights To Leading Pharmacogenomic Technologies for Neurological
×	Disorders", February 8, 1999, Canada Newswire
	Yasuhara, "Ethnic factors in evaluation of drug efficacy and safety", August 1994, Nippon Yakurigaku Zasshi,
×	102(2): 67-78 (English Abstract)
	Text of April 17, 2001 press release re: Classen patent No. 6,219,674
-	
	·

Examiner		Date Considered
EXAMINER:		
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